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(54) METHOD FOR PRODUCING AMPHIPHILIC POLYMER**(57)Abstract:**

PROBLEM TO BE SOLVED: To provide an amphiphilic polymer having a high gas hydrate production-controlling capacity.

SOLUTION: This method for producing the amphiphilic polymer performs a polymerization while dripping an amphiphilic monomer such as N- isopropylmethacrylamide, an initiator such as 2,2'-azobis(2-methylbutylonitrile) and a nonionic chain transfer agent such as 2-mercatoethanol into a polymerization solvent such as ethylene glycol. The hydrate production-controlling agent consisting of the polymer obtained by the method of production and the method for controlling the production of the hydrate by using the polymer obtained by the method of production are also provided.

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